

Amendments to the Claims:

Please amend claims 1, 5-10, 15-17, and 19; and add claims 21-27 as set forth below.

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:

a scanning mirror;

a beam structure extending from one end at the scanning mirror to another end spaced from the scanning mirror, the beam structure having its one end connected to a plurality of locations on the scanning mirror; and

a spring having one end connected to the beam structure.

2. (Original) The device of claim 1, wherein the spring has another end connected to an anchor bonded to a stationary surface.

3. (Original) The device of claim 1, wherein the spring has another end connected to a stationary surface.

4. (Previously presented) The device of claim 1, further comprising:
a plurality of rotational comb teeth connected to the beam structure; and
a plurality of stationary comb teeth, wherein the stationary comb teeth and the rotational comb teeth are interdigitated.

5. (Currently amended) The device of claim 1, further comprising:
~~a plurality of springs each~~ at least one additional spring having one end connected to the beam structure along a rotational axis of the scanning mirror.

6. (Currently amended) The device of claim 5, wherein the ~~plurality of springs~~
~~each~~ additional spring has another end connected to a corresponding anchor bonded to a
corresponding stationary surface.

7. (Currently amended) The device of claim 5, wherein the ~~plurality of spring~~
~~each~~ additional spring has another end connected to a stationary surface.

8. (Currently amended) A micro-electro-mechanical system (MEMS) scanning
mirror device, comprising:

a scanning mirror;

a beam structure having one end connected to the scanning ~~mirror~~ mirror, the
beam structure extending to another end spaced from the scanning mirror; and

a plurality of torsion springs each having one end connected to the beam structure,
wherein the torsion springs are aligned along a rotational axis of the scanning mirror with at least
one torsion spring located between another torsion spring and the scanning mirror.

9. (Currently amended) The device of claim 8, wherein at least one of the
plurality of torsion springs ~~each~~ has another end connected to a corresponding anchor bonded to
a corresponding stationary surface.

10. (Currently amended) The device of claim 8, wherein at least one of the
plurality of torsion springs ~~each~~ has another end connected to a stationary surface.

11. (Previously presented) The device of claim 8, further comprising:

a plurality of rotational comb teeth connected to the beam structure; and

a plurality of stationary comb teeth, wherein the stationary comb teeth and the
rotational comb teeth are interdigitated.

12. (Original) The device of claim 8, wherein the one end of the beam structure
is connected to a plurality of locations on the scanning mirror.

13. (Previously presented) The device of claim 1, wherein the device is part of a system selected from the group consisting of a barcode reader, a printer, a confocal microscope, a display, a TV, and a wearable display.

14. (Previously presented) The device of claim 8, wherein the device is part of a system selected from the group consisting of a barcode reader, a printer, a confocal microscope, a display, a TV, and a wearable display.

15. (Currently amended) A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:

a scanning mirror;

a beam structure having one end connected to the scanning ~~mirror~~ mirror, the beam structure extending to another end spaced from the scanning mirror; and

a plurality of ~~torsion~~ springs connected to the beam structure along its length, wherein the ~~torsion springs are aligned~~ springs provide restoring torque at spaced positions along a rotational axis of the scanning mirror with at least one spring located between another spring and the scanning mirror.

16. (Currently amended) The device of claim 15, wherein the ~~torsion~~ springs are further connected to corresponding anchors bonded to a corresponding stationary surface.

17. (Currently amended) The device of claim 15, wherein the ~~torsion~~ springs are further connected to a stationary surface.

18. (Previously presented) The device of claim 15, wherein the device is part of a system selected from the group consisting of a barcode reader, a printer, a confocal microscope, a display, a TV, and a wearable display.

19. (Currently amended) The device of claim 15, wherein the one end of the beam structure is connected to a plurality of locations on the scanning mirror.

20. (Previously presented) The device of claim 19, further comprising:

a plurality of rotational comb teeth connected to the beam structure; and
a plurality of stationary comb teeth, wherein the stationary comb teeth and the rotational comb teeth are interdigitated.

21, (New) The device of claim 1, further comprising an additional beam structure extending from one end at the scanning mirror to another end spaced from the scanning mirror.

22, (New) The device of claim 21, wherein the one end of the additional beam structure is connected to an additional plurality of locations on the scanning mirror.

23, (New) The device of claim 21, further comprising an additional spring having one end connected to the additional beam structure.

24, (New) The device of claim 8, further comprising an additional beam structure extending from one end at the scanning mirror to another end spaced from the scanning mirror.

25, (New) The device of claim 24, further comprising a plurality of additional torsion springs each having one end connected to the additional beam structure.

26, (New) A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:

a scanning mirror;

first and second beam structures, each extending from a respective proximal end at the scanning mirror to a respective distal end spaced from the scanning mirror, at least one of the beam structures being connected at its proximal end to a plurality of locations on the scanning mirror; and

a spring having one end connected to at least one of the beam structures.

27, (New) A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:

a scanning mirror;

first and second beam structures, each connected at a respective proximal end to the scanning mirror and extending to a respective distal end spaced from the scanning mirror;
and

a plurality of torsion springs each having one end connected to the first beam structure, wherein the torsion springs are aligned along a rotational axis of the scanning mirror with at least one torsion spring located between another torsion spring and the scanning mirror.